

Fund 402

Sewer Construction Improvements

Board of Supervisors' Adjustments

The following funding adjustments reflect all changes to the FY 2006 Advertised Budget Plan, as approved by the Board of Supervisors on April 25, 2005:

- ◆ The Board of Supervisors made no adjustments to this fund.

Focus

Fund 402, Sewer Construction Improvements, provides for wastewater management construction projects through a transfer of funds from Fund 400, Sewer Revenue. All projects in Fund 402 are supported by sewer system revenues and are included in the Summary of Capital Projects.

In FY 2006, an amount of \$45,807,900 is included in Fund 402, Sewer Construction Improvements. Funding is provided through Fund 400, Sewer Revenue, to fund the County contributions for upgrade costs to the District of Columbia Water and Sewer Authority (DCWASA), the Alexandria Sanitation Authority (ASA) and the Arlington Treatment Plant; construction of a new pump station, and the rehabilitation of the Clifton Pump and Haul Station and several existing pump stations; the replacement of Dogue Creek Force Main and the rehabilitation of Noman M. Cole, Jr. Pollution Control plant; as well as the repair, replacement and renovation of various aging sewer lines.

Changes to FY 2005 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2005 Revised Budget Plan since passage of the FY 2005 Adopted Budget Plan. Included are all adjustments made as part of the FY 2004 Carryover Review and all other approved changes through December 31, 2004:

- ◆ At the FY 2004 Carryover Review, the Board of Supervisors approved an increase of \$51,688,913 due to the carryover of unexpended project balances.

The following funding adjustments reflect all approved changes to the FY 2005 Revised Budget Plan from January 1, 2005 through April 18, 2005. Included are all adjustments made as part of the FY 2005 Third Quarter Review:

- ◆ The Board of Supervisors made no adjustments to this fund.

A Fund Statement, a Summary of Capital Projects and Project Detail Tables for each project funded in FY 2006 are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project). The Project Detail Tables include project location, description, source of funding, and completion schedules.

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FUND STATEMENT

Fund Type G40, Enterprise Funds

Fund 402, Sewer Construction Improvements

	FY 2004 Actual	FY 2005 Adopted Budget Plan	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan
Beginning Balance	\$80,996,564	\$0	\$51,688,913	\$0	\$0
Transfer In:					
Sewer Revenue (400)	\$33,469,362	\$35,495,200	\$35,495,200	\$45,807,900	\$45,807,900
Total Transfer In	\$33,469,362	\$35,495,200	\$35,495,200	\$45,807,900	\$45,807,900
Total Available	\$114,465,926	\$35,495,200	\$87,184,113	\$45,807,900	\$45,807,900
Total Expenditures	\$62,777,013	\$35,495,200	\$87,184,113	\$45,807,900	\$45,807,900
Total Disbursements	\$62,777,013	\$35,495,200	\$87,184,113	\$45,807,900	\$45,807,900
Ending Balance	\$51,688,913	\$0	\$0	\$0	\$0

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FY 2006 Summary of Capital Projects

Fund: 402 Sewer Construction Improvements

Project #	Description	Total Project Estimate	FY 2004 Actual Expenditures	FY 2005 Revised Budget	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan
G00901	DC Treatment Center - Blue Plains	\$90,105,605	\$14,096,492.78	\$13,889,419.37	\$12,517,000	\$12,517,000
G00903	Arlington Wastewater Treatment	20,487,392	1,059,404.00	4,545,110.00	4,100,000	4,100,000
I00351	Pump Station Renovations		706,407.80	5,869,169.67	3,700,000	3,700,000
I00904	ASA Wastewater Treatment Plant	238,563,300	31,242,528.70	17,173,852.30	5,244,900	5,244,900
L00117	Dogue Creek Rehab/Replacement		23,935.72	476,064.28	2,500,000	2,500,000
N00321	Lower Potomac Exp. 54 MGD	100,889,000	3,182,768.67	7,228,938.54	1,000,000	1,000,000
T00124	Rocky Run Pump Station	4,335,926	470,000.00	337,203.78	0	0
X00445	Integrated Sewer Metering		116,175.00	238,972.86	0	0
X00823	Extension Projects FY 1993	4,009,003	1,211,673.67	318,623.06	0	0
X00826	Extension Project FY 1996	17,519,009	2,051,102.79	7,427,850.36	0	0
X00900	Replacement Transmission		6,079.60	776,725.19	0	0
X00905	Replacement & Transmission		7,005,145.43	10,778,958.54	6,250,000	6,250,000
X00906	Sewer Line Enlargement		1,497,770.15	4,711,048.86	700,000	700,000
X00908	Sewer Line Replacement - 5 Inch		0.00	136,920.04	0	0
X00910	Replacement and Renewal		103,551.97	12,453,202.98	9,796,000	9,796,000
X00930	Sewer Relocation - VADOT		2,969.93	184,466.13	0	0
X00940	Developer Projects County Costs		1,006.64	399,328.85	0	0
X00998	Sewer Contingency Project		0.00	185,686.27	0	0
X00999	Sewer Revolving Fund		0.00	52,572.00	0	0
Total		\$475,909,235	\$62,777,012.85	\$87,184,113.08	\$45,807,900	\$45,807,900

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G00901	DC Treatment Blue Plains
Blue Plains Sewer Shed	Countywide
Description and Justification: This project provides for the payment to DCWASA for Fairfax County's share of the projected costs associated with the upgrade to the DC Blue Plains Wastewater Treatment Plant. The County pays for approximately 8.4 percent of the total costs for the design and construction of the upgrade for nitrification and sludge handling facilities. Fairfax County's estimated share of the project cost is \$90,105,605 over a six-year period. Funding of \$12,517,000 provides for the County's FY 2006 share based on DCWASA's projected expense summary and construction schedule.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	221,635	130,765	90,871	0	0	0	0
Construction	63,402,580	8,493,890	13,985,845	12,354,229	12,517,000	12,517,000	16,051,616
Interjurisdictional Payment	26,481,389	24,926,422	19,777	1,535,190	0	0	0
Total	\$90,105,605	\$33,551,077	\$14,096,493	\$13,889,419	\$12,517,000	\$12,517,000	\$16,051,616

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$12,517,000	\$12,517,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
First Quarter FY 2000	Fourth Quarter FY 2000	Fourth Quarter FY 2000	Various	Fourth Quarter FY 2009

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G00903	Arlington Wastewater Treatment
Arlington Sewer Shed	Countywide
Description and Justification: This project provides for the expansion and improvement of the Arlington County Wastewater Treatment Plant. The Fairfax County Board of Supervisors has approved a contract with Arlington County for the purchase of permanent sewage treatment capacity allocation of three million gallons per day in the expanded and improved Arlington Wastewater Treatment Plant. Fairfax County purchases this treatment capacity through contributions to the Arlington construction project. Funding in the amount of \$4,100,000 is required to meet the County's obligation in FY 2006.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	0	0	0	0	0	0
Construction	11,596,719	1,892,205	1,059,404	4,545,110	4,100,000	4,100,000	0
Interjurisdictional Payment	8,890,673	8,890,673	0	0	0	0	0
Total	\$20,487,392	\$10,782,878	\$1,059,404	\$4,545,110	\$4,100,000	\$4,100,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$4,100,000	\$4,100,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
NA	Second Quarter FY 2003	Fourth Quarter FY 2004	Third Quarter FY 2005	Fourth Quarter FY 2009

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I00351	Pump Station Renovations
Countywide	Countywide
Description and Justification: This project provides for the renovation of the existing pumping stations, as well as the construction of new pumping stations within the Wastewater Management Program. FY 2006 funding in the amount of \$3,700,000 provides for the rehabilitation of the Clifton Pump and Haul Station and 14 pumping stations throughout the County based on the deteriorating condition of the holding tanks and other mechanical facilities.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition		\$11,180	\$24,460	\$0	\$0	\$0	\$0
Design and Engineering		2,931,135	425,649	201,095	0	0	0
Construction		9,019,711	256,299	5,528,074	3,700,000	3,700,000	0
Other		208,784	0	140,001	0	0	0
Total	Continuing	\$12,170,811	\$706,408	\$5,869,170	\$3,700,000	\$3,700,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$3,700,000	\$3,700,000

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I00904	ASA Wastewater Treatment Plant
ASA Sewer Shed	Various
Description and Justification: This project funds the payment to the Alexandria Sanitation Authority for Fairfax County's 60 percent share of construction costs associated with the ammonia removal improvements to the Alexandria Wastewater Treatment Plant. The design phase of the project has been completed, and construction is scheduled for completion in FY 2006. Funding of \$5,244,900 provides for the County's FY 2006 share based on the projected expense summary.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	0	0	0	0	0	0
Construction	182,411,125	98,942,142	31,242,529	17,173,852	5,244,900	5,244,900	29,807,702
Other	56,152,175	56,152,175	0	0	0	0	0
Total	\$238,563,300	\$112,697,320	\$31,242,529	\$17,173,852	\$5,244,900	\$5,244,900	\$29,807,702

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$5,244,900	\$5,244,900

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
N/A	First Quarter FY 2000	First Quarter FY 2000	First Quarter FY 2001	Fourth Quarter FY 2006

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L00117	Dogue Creek Rehabilitation/Replacement
Lower Potomac Sewer Shed	Mount Vernon
Description and Justification: This project provides for the replacement of the Dogue Creek Force Main. The Dogue Creek Force Main is approximately 4,350 linear feet of 36-inch trunk line. The existing force main was rehabilitated in FY 1998; however, due to the critical nature of this force main, it has been recommended a new parallel force main be constructed and use the existing force main as a backup to the new force main. In FY 2004, funding was approved for the initial study and design. The design should be completed by June 2005. FY 2006 funding of \$2,500,000 will allow the project to continue on schedule with the first portion of the construction phase.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition		\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering		265,183	0	0	0	0	0
Construction		1,224,125	23,936	476,064	2,500,000	2,500,000	2,000,000
Other		18,471	0	0	0	0	0
Total	Continuing	\$1,507,779	\$23,936	\$476,064	\$2,500,000	\$2,500,000	\$2,000,000

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$2,500,000	\$2,500,000

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N00321	Lower Potomac Exp. 54 MGD
Lower Potomac Sewer Shed	Mount Vernon
Description and Justification: This project provides for the upgrade to the Noman M. Cole, Jr. Pollution Control Plan. FY 2006 funding in the amount of \$1,000,000 funds the initial study for upgrading the plant to meet the "limit of technology" nitrogen removal. Currently, the plant has the capabilities of meeting the current nitrogen removal standard of 8 mg/l. However, the state is considering a standard of 3 mg/l. In order to meet the 3 mg/l limit, an upgrade of the plant's current nitrogen removal process will be required.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition	\$14,724,378	\$14,724,328	\$0	\$0	\$0	\$0	\$50
Design and Engineering	38,116,213	34,413,786	1,980,453	1,281,888	0	0	440,086
Construction	44,981,209	3,498,829	423,373	5,946,324	1,000,000	1,000,000	34,112,683
Other	3,067,200	2,287,532	778,942	726	0	0	0
Total	\$100,889,000	\$54,924,474	\$3,182,769	\$7,228,939	\$1,000,000	\$1,000,000	\$34,552,819

Source of Funding				
General Funding	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$1,000,000	\$1,000,000

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X00905	Replacement and Transmission
Countywide	Countywide
Description and Justification: This project provides for the systematic rehabilitation of the County's more than 3,100 miles of sanitary sewer lines. Rehabilitation options include techniques/products such as slip-lining, instituform, and fold and form. A total of 20 miles of sewer lines were completed in FY 2004 and anticipated in FY 2005 and FY 2006. Funding of \$6,250,000 includes \$5,000,000 for the recurring repair, replacement and renovation of these sewer lines using predominantly "no dig" technologies. In addition, \$1,000,000 is required for sewer line realignment of 13 line segments throughout the County to correct hydraulic problems to prevent backups and/or overflows and \$250,000 provides for a material storage facility at Little River Hunting Creek Treatment Plant site.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition		\$135,996	\$889	\$22,482	\$0	\$0	\$0
Design and Engineering		1,819,238	97,610	380,451	0	0	0
Construction		62,202,321	6,802,315	10,339,176	6,250,000	6,250,000	0
Other		197,414	104,332	36,850	0	0	0
Total	Continuing	\$64,354,969	\$7,005,145	\$10,778,959	\$6,250,000	\$6,250,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$6,250,000	\$6,250,000

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X00906	Sewer Line Enlargement
Countywide	Countywide
Description and Justification: This project provides for the replacement of undersized sewer lines with larger diameter sewer lines in those areas of the County experiencing growth or redevelopment. The current funding is for the replacement of the Pohick Trunk line due to the age and deteriorating condition of the trunk line. Based on the contract award, additional funding of \$700,000 in FY 2006 is required to complete construction of this project.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition		\$202,600	(\$73,326)	\$74,189	\$0	\$0	\$0
Design and Engineering		712,205	198,678	1,996	0	0	0
Construction		1,465,725	1,372,418	4,632,149	700,000	700,000	0
Other		37,885	0	2,714	0	0	0
Total	Continuing	\$2,418,415	\$1,497,770	\$4,711,049	\$700,000	\$700,000	\$0

Source of Funding				
General Funding	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$700,000	\$700,000

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X00910	Replacement and Renewal
Countywide	Countywide
Description and Justification: This project provides for the replacement of facilities at the Noman M. Cole, Jr. Pollution Control Plant to maintain efficient operations and meet permit requirements. FY 2006 funding of \$9,796,000 supports the carbon replacement for the plant's filter systems, methanol facility for nitrogen removal, surge suppression of voltage spikes, incinerator rehabilitation, tertiary clarifiers and grit building rehabilitation, backup generator replacement, the final phase of the sludge dewatering facility replacement and the stormwater management plan to control the plant's stormwater runoff.	

	Total Project Estimate	Prior Expenditures	FY 2004 Expenditures	FY 2005 Revised Budget Plan	FY 2006 Advertised Budget Plan	FY 2006 Adopted Budget Plan	Future Years
Land Acquisition		\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering		1,525,302	103,552	0	0	0	0
Construction		3,967,195	0	11,718,960	9,796,000	9,796,000	0
Other		230,402	0	734,243	0	0	0
Total	Continuing	\$5,722,899	\$103,552	\$12,453,203	\$9,796,000	\$9,796,000	\$0

Source of Funding				
General Funding	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$9,796,000	\$9,796,000